

CCR # TBS

Table 2: Level 4 Requirement Modification Table

RTM baseline 07-31-96

paragraph_id	req_key	req_type	rel	req-status	ver- status	verificati on_meth od	L4 text	clarification
C-MSS-18060	955	functional	A	approved	un-verified	test	The Management Data Access Service shall provide the capability for an <u>application operator</u> to access management data <u>via a log browser</u> .	
C-MSS-18070	221	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall provide the capability to selectively access management data.	<u>This refers to the capability to sort and filter events in the management logs.</u>
C-MSS-18200	224	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall provide the capability for an application via APIs to <u>update fields in append information to the</u> management database.	<u>Applications log events via API. MDA uses data in the logs to update the management database.</u>
C-MSS-18220	225	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall provide the capability for an application via APIs to alter tables and fields in the management database.	
C-MSS-18280	229	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall have the capability to schedule the transfer of management data at the sites to the SMC.	
C-MSS-18330	863	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall provide the capability for an application to append records to a log file.	
C-MSS-18340	233	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall provide the capability for an <u>application operator</u> to selectively read a record from a log file	

C-MSS-36110	440	functional	A	approved	un-verified	test	The MSS Management Agent Service shall provide an ECS domain manager <u>master agent</u> to coordinate and communicate with multiple ECS management <u>subagents</u> .	
C-MSS-40460	400	functional <u>operational</u>	A	approved	un-verified	test	The MSS configuration management application service at the SMC shall assemble unlicensed toolkit software files for posting to the ECS bulletin board. Files consist of: a._source code; b._linkable object code for selected workstation configurations; c._makefiles that automate installation; d._installation instructions.	<u>Assembly of software files performed manually by M&O operators.</u>
C-MSS-57550	5129	functional	A	approved	un-verified	test	The Trouble Ticketing Service shall provide the ability to maintain different be capable of indicating whether a trouble ticket statuses including: is Open, Work In Progress, Closed, Archived. <u>The Trouble Ticketing Service shall be capable of indicating whether a trouble ticket is open, in progress, closed, or archived.</u>	
C-MSS-60160	215	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Fault Management Application Service shall have the capability to receive notifications of detected faults and degradation of performance from: a._Site fault management applications b._Other external systems as defined in Section 5.1.	<u>Satisfied via e-mail.</u>
C-MSS-60210	226	functional <u>operational</u>	A	approved	un-verified	test	The MSS Fault Management Application Service shall maintain a list of external service providers, M&O operators, and applications to be notified in the event that a specified fault is detected.	<u>Satisfied via OA tools.</u>

C-MSS-60300	254	functional	A	approved	un-verified	test	The MSS Fault Management Application Service shall provide the capability to identify routes <u>verify connectivity</u> between selected pairs of hosts on the ESN.	
C-MSS-60350	258	functional <u>operational</u>	A	approved	un-verified	test	The MSS Fault Management Application Service shall have the capability to periodically execute diagnostic tests in order to isolate, characterize and identify a fault._	<u>Diagnostics initiated manually by M&O operators.</u>
C-MSS-60400	9790	functional <u>operational</u>	A	approved	un-verified	test	The MSS Fault Management Application Service shall support, maintain, and update system fault management policies and procedures, to include: _a._ Fault Identification _b._ Fault priorities _c._ Recovery or corrective actions	<u>Satisfied via OA tools.</u>
C-MSS-60410	265	functional <u>operational</u>	A	approved	un-verified	test	The MSS Site Fault Management Application Service shall have the capability to receive Fault Management Policies and Procedures from the EMC._	<u>Satisfied via e-mail.</u>
C-MSS-60420	5331	functional <u>operational</u>	A	approved	un-verified	test	The MSS Fault Management Application Service shall interface with the MSS Configuration Management Application Service and schedule a change in the configuration of the site when such a change in the configuration of the site is deemed necessary to recover from a fault._	<u>Site configuration changes are performed by M&O operators.</u>
C-MSS-60510	269	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Fault Management Application Service at the SMC shall coordinate, as necessary via directives and instructions, the recovery from faults reported from a site.	<u>Satisfied via e-mail.</u>
C-MSS-60540	272	functional <u>operational</u>	A	approved	un-verified	test	The MSS Fault Management Application Service shall utilize office automation support tools for the generation of directives and instructions for recovery from faults within its site.	<u>Satisfied via OA tools.</u>

C-MSS-66140	9106	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Performance Management Application Service shall have the capability to request performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version of 304-CD-003.	<u>Satisfied via e-mail.</u>
C-MSS-66150	9125	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Performance Management Application Service shall be capable of receiving performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version of 304-CD-003.	<u>Satisfied via e-mail.</u>
C-MSS-66210	4898	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC performance management application service shall be capable of sending a list of suggested initial thresholds for each performance metric to the MSS site performance management application service.	<u>Satisfied via e-mail.</u>
C-MSS-66220	4899	functional <u>operational</u>	A	approved	un-verified	test	The MSS site performance management application service shall be capable of receiving a list of suggested initial thresholds for each performance metric from the MSS EMC performance management application service.	<u>Satisfied via e-mail.</u>
C-MSS-66320	5300	functional	A	approved	un-verified	test	The MSS Performance Management Application Service shall be capable of receiving the following performance data from the Data Server: a. total order volume b. average elapsed time for of Data Server events	

C-MSS-66330	5301	functional	A	approved	un-verified	test	The MSS Performance Management Application Service shall be capable of receiving the following performance data from <u>Data Processing Planning</u> : a. <u>number of products generated</u> b. <u>product run times</u> c. <u>product CPU times</u> d. <u>Notification received but not processed</u> e. <u>DPRs released</u>	<u>Data will be received via MDA and logged into management database.</u>
C-MSS-66340	5302	functional	A	approved	un-verified	test	The MSS Performance Management Application Service shall be capable of receiving the following performance data from Ingest: a. ingest volumes b. processing times c. no. of completed requests d. no. of unsuccessful requests	
C-MSS-68030	311	functional	A	approved	un-verified	test	The MSS performance management application service shall be capable of receiving system resource utilization information requests from the SDPS <u>Planning & Data Processing Data Processing subsystem operators</u> via the Management Agent Service.	
C-MSS-68040	312	functional	A	approved	un-verified	test	The MSS performance management application service shall be capable of providing the following current system resource utilization information to the SDPS <u>Planning & Data Processing subsystem operators</u> via Management Agent Service: a. CPU utilization b. memory utilization c. disk i/o's (per second)	
C-MSS-68050	313	functional	A	approved	un-verified	test	The MSS performance management application service shall be capable of receiving resource utilization information requests from the SDPS <u>Data Server subsystems operators</u> via Management Agent Service.	

C-MSS-68060	314	functional	A	approved	un-verified	test	The MSS performance management application service shall be capable of providing the following current resource utilization information to the SDPS Data Server subsystems operators via Management Agent Service: a. CPU utilization b. memory utilization c. disk I/O's (per second)	
C-MSS-68070	315	functional	A	approved	un-verified	test	The MSS performance management application service shall be capable of receiving resource utilization information requests from the SDPS Client subsystem operators via Management Agent Service.	
C-MSS-68080	316	functional	A	approved	un-verified	test	The MSS performance management application service shall be capable of providing the following current resource utilization information to the SDPS Client subsystem operators via Management Agent Service. a. CPU utilization b. memory utilization c. disk I/O's (per second)	
C-MSS-69000	317	functional <u>operational</u>	A	approved	un-verified	test	The MSS performance management application service shall maintain operational benchmark test procedures.	<u>Satisfied via OA tools.</u>
C-MSS-69010	318	functional <u>operational</u>	A	approved	un-verified	test	The MSS performance management application service shall receive and maintain operational benchmark test results.	<u>Satisfied via OA tools.</u>
C-MSS-69020	319	functional <u>operational</u>	A	approved	un-verified	test	The MSS performance management application service shall be capable of performing operational benchmark tests.	<u>Benchmark tests are initiated manually by M&O operators.</u>

C-MSS-69030	322	functional <u>operational</u>	A	approved	un-verified	test	The MSS performance management application service shall be capable of providing results of benchmark tests and results of predefined tests to the M&O staff for validation.	<u>Satisfied via OA tools.</u>
C-MSS-70320	332	functional <u>operational</u>	A	approved	un-verified	test	The MSS site Security Management Application Service shall have the capability to send the results of the tests to the EMC Security Management Application Service.	<u>Satisfied via e-mail.</u>
C-MSS-70330	333	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall have the capability to request, support, coordinate and maintain security testing for sites.	<u>Satisfied via e-mail</u>
C-MSS-70340	334	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall have the capability to request security testing of the sites on a scheduled and an interactive basis	<u>Satisfied via e-mail</u>
C-MSS-70350	335	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall have the capability to receive the results of security tests performed at the sites.	<u>Satisfied via e-mail (or kftp for sensitive data)</u>
C-MSS-70400	336	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall have the capability to receive notifications of security events from the site Security Management Application Services._	<u>Satisfied via e-mail</u>
C-MSS-70420	338	functional	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall have the capability to analyze security audit trails events for the purpose of detecting intrusions._	
C-MSS-70430	339	functional <u>operational</u>	A	approved	un-verified	test	The MSS site Security Management Application Service shall provide the capability to designate a user or a group of users to receive a notification upon the detection of an intrusion. virus or worm.	<u>Satisfied via e-mail aliases set up and maintained by M&O operators</u>

C-MSS-70440	340	functional	A	approved	un-verified	test	The MSS site Security Management Application Service shall provide the capability to notify designated M&O staff(s) upon the detection of an intrusion. virus or worm.	
C-MSS-70450	341	functional	A	approved	un-verified	test	The MSS site Security Management Application Service shall have the capability to detect the following types of intrusions: a. _Login failures b. _Unauthorized access to ECS resources c. _Break-ins_ d. _Viruses and worms	<u>Security management detects intrusions based on events logged to the Management Log.</u>
C-MSS-70500	343	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall have the capability to coordinate with the site Security Management Application Services, via directives and instructions, the recovery from security compromises._	<u>Satisfied via e-mail.</u>
C-MSS-70510	344	functional <u>operational</u>	A	approved	un-verified	test	The MSS site Security Management Application Service shall, upon the detection of a compromise, isolate the compromised input I/O, and the compromised area's output I/O until the compromise has been eliminated._	<u>Isolation done manually by M&O operators.</u>
C-MSS-70530	346	functional <u>operational</u>	A	approved	un-verified	test	The MSS EMC Security Management Application Service shall coordinate, as necessary via directives and instructions, the recovery from security events reported from a site. _	<u>Satisfied via e-mail.</u>

C-MSS-75000	352	functional	A	approved	un-verified	test	<p>The MSS accountability management service shall provide the capability to maintain a user profile database that stores the following information for each registered user:</p> <ul style="list-style-type: none"> a. Name b. User ID c. Password information <ul style="list-style-type: none"> 1. password 2. password expiration date d. Assigned privileges e. Mailing address f. Telephone number g. Product shipping address h. E-mail address i. Organization (optional) j. Project affiliation(s) (optional) <ul style="list-style-type: none"> 1. project name 2. project principal investigator k. User group l. Account information <ul style="list-style-type: none"> 1. creation date 2. expiration date m. Restrictions <ul style="list-style-type: none"> 1. time of day 2. location 3. type of service 	
C-MSS-76020	357	functional	A	approved	un-verified	test	<p>The MSS accountability management service shall be capable of retrieving all activities associated with a particular user or data item <u>via from the Management Data Access service Database.</u></p>	
C-MSS-76030	329	functional	A	approved	un-verified	test	<p>The MSS Accountability Management Service shall <u>be capable of browsing, via the Management Data Access service, logged events,</u> for each ECS host, <u>indicating</u> incoming access attempts via:</p> <ul style="list-style-type: none"> a. telnet b. FTP c. rlogin d. finger. 	

C-MSS-77040	362	functional	A	approved	un-verified	test	The MSS accountability management service shall be capable of accepting queries for the status of a particular ordered data item from the SDPS Client subsystem <u>M&O operators</u> .	
C-MSS-77050	9246	functional	A	approved	un-verified	test	The MSS accountability management service shall be capable of interfacing with the SDPS subsystems to determine the status of an ordered data item to be: a. <u>Request in queue for processing</u> <u>Pending</u> b. <u>Request currently being processed</u> <u>Operator intervention</u> c. <u>Request successfully processed</u> <u>Staging</u> d. <u>Error in request processing</u> <u>Transferring</u> e. <u>Error in request</u> <u>Not Found</u> f. <u>Waiting for Shipment</u> g. <u>Shipped</u>	
C-MSS-77060	364	functional	A	approved	un-verified	test	The MSS accountability management service shall be capable of reporting the requested status of an ordered data item to the SDPS Client subsystem <u>M&O operators</u> .	

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Table 3: Level 4 Requirement Deletion Table

RTM baseline 07-31-96

paragraph_id	req_key	req_type	rel	req-status	ver-status	verification_method	L4 text	clarification
C-MSS-10050	143	interface	A	approved	un-verified	test	The MSS shall interface with the Affiliated Data Centers (ADC) to exchange data identified in Table 5.1-1 as specified in ECS/ADC IRD, 219-CD-006.	

C-MSS-10090	—147	interface	A	approved	un-verified	test	The MSS shall interface with the Program Support Communications Network (PSCN) to exchange data identified in Table 5.1-1 as specified in ECS/PSCN IRD, 193-219-SE1-008.	
C-MSS-10100	—148	interface	A	approved	un-verified	test	The MSS shall interface with the EDOS to exchange data identified in Table 5.1-1 as specified in EDOS/EGS IRD, 560-EDOS-0211.	
C-MSS-10110	—149	interface	A	approved	un-verified	test	The MSS shall interface with the International Partners (IP) for Data Interoperability to exchange data identified in Table 5.1-1 as specified in ECS/IP IRD, 194-219-SE1-015.	
C-MSS-18040	—218	functional	A	approved	un-verified	test	The MSS Management Data Access Service shall maintain the integrity of the management database.	
C-MSS-77000	—358	functional	A	approved	un-verified	test	The MSS accountability management service shall be capable of retrieving data processing information (instrument used and date/time of ingest or algorithm used (name and version) and date/time or processing) from records generated by the SDPS Data Processing subsystem.	
C-MSS-77005	5317	functional	A	approved	un-verified	test	The MSS Accountability Management Service shall be capable of retrieving data processing information for a specified managed resource.	
C-MSS-77010	—360	functional	A	approved	un-verified	test	The MSS accountability management service shall be capable of querying via the Management Data Access service all data processing information stored in the Management database.	
C-MSS-77030	—361	functional	A	approved	un-verified	test	The MSS accountability management service shall be capable of retrieving all data processing information logged for a specified data item.	

C-MSS-87620	5149	functional	A	approved	un-verified	test	The Physical Configuration Management Service shall provide tight integration with the Trouble Ticketing (TT) System including allowing direct access of the TT through the Physical Configuration Management Interface.	
C-MSS-90140	165	functional	A	approved	un-verified	test	The DBMS shall support, or be accessed via, CSS session establishment services.	

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Table 4: Level 4 Requirement Addition Table

RTM baseline 07-31-96

paragraph_id	req_key	req_type	rel	req-status	ver-status	verification_method	L4 text	clarification
<u>C-MSS-58000</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall have a graphical interface to support the entry and editing of contacts.</u>	
<u>C-MSS-58010</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall provide an Application Program Interface which supports integration of entry of contacts by other packages.</u>	
<u>C-MSS-58020</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall provide the ability to search historical and current contacts by category, log id, associated trouble ticket, contact organization, contact home DAAC, contact phone number, and contact id.</u>	
<u>C-MSS-58030</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall provide the ability to maintain different contact statuses including logged, open, and closed.</u>	

<u>C-MSS-58040</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall provide the ability to store the following minimum set of information: unique contact id, status, description, contact name, receiving operator, received time, modified date, last modified by, and category.</u>	
<u>C-MSS-58050</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall integrate with the framework to allow management and monitoring of its services.</u>	
<u>C-MSS-58060</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall allow entry of a contact log by any operator of the system.</u>	
<u>C-MSS-58070</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall provide the capability to generate reports from its data.</u>	
<u>C-MSS-58080</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall allow output of reports to either the screen, file, or printer.</u>	
<u>C-MSS-58090</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall provide customization features to allow sites to specify receiving operator and category.</u>	
<u>C-MSS-58100</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall allow creation of trouble ticket from contact log.</u>	
<u>C-MSS-58110</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall allow access of trouble ticket from contact log.</u>	
<u>C-MSS-58120</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The Contact Log Service shall allow automatic population of create time.</u>	
<u>C-MSS-75052</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The MSS shall provide the user with registration approval results when new ECS user accounts are requested.</u>	

Baseline 7/31/96

Table 5 - Link Deletion Table: This table identifies links that are to be deleted from the RTM database.

RBR Paragraph_Id	L4 Paragraph_Id
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NOAA0700#A	C-MSS-10050
NOAA0600#A	C-MSS-10050
NOAA0610#A	C-MSS-10050
NOAA0120#A	C-MSS-10050
NOAA0140#A	C-MSS-10050
ESN-0640#A	C-MSS-10090
SMC-5325#A	C-MSS-10100
EOSD1600#A	C-MSS-10100
EOSD1770#A	C-MSS-10110
AM1-0220#A	C-MSS-40460
SMC-2515#A	C-MSS-40460
SMC-2535#A	C-MSS-40460
ESN-0770#A	C-MSS-90510
SMC-8300#A	C-MSS-90510
SMC-8305#A	C-MSS-90510
SMC-8700#A	C-MSS-90510
SMC-8770#A	C-MSS-90510
SMC-8705#A	C-MSS-90510

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Table 6 - Link Addition Table: This table identifies NEW links which are to be added to the RTM database.

RBR paragraph_id	Level_4 paragraph_id
AM1-0220#B	C-MSS-40460
SMC-2515#B	C-MSS-40460
SMC-2535#B	C-MSS-40460
ESN-0770#B	C-MSS-90510
SMC-8300#B	C-MSS-90510
SMC-8305#B	C-MSS-90510
SMC-8700#B	C-MSS-90510
SMC-8770#B	C-MSS-90510
SMC-8705#B	C-MSS-90510
SMC-8800#A	C-MSS-58000
SMC-8800#A	C-MSS-58010
SMC-8800#A	C-MSS-58020
SMC-8800#A	C-MSS-58030
SMC-8800#A	C-MSS-58040
SMC-8800#A	C-MSS-58050
SMC-8800#A	C-MSS-58060
SMC-8800#A	C-MSS-58070
SMC-8800#A	C-MSS-58080
SMC-8800#A	C-MSS-58090
SMC-8800#A	C-MSS-58100
SMC-8800#A	C-MSS-58110
SMC-8800#A	C-MSS-58120
SMC-8841#A	C-MSS-58000
SMC-8841#A	C-MSS-58010
SMC-8841#A	C-MSS-58020
SMC-8841#A	C-MSS-58030
SMC-8841#A	C-MSS-58040
SMC-8841#A	C-MSS-58050
SMC-8841#A	C-MSS-58060
SMC-8841#A	C-MSS-58070
SMC-8841#A	C-MSS-58080
SMC-8841#A	C-MSS-58090
SMC-8841#A	C-MSS-58100
SMC-8841#A	C-MSS-58110

SMC-8841#A	C-MSS-58120
EOSD2650#A	C-MSS-70430
IMS-0060#A	C-MSS-75052